



Cyberchron Rugged Systems

A Division of C-Systems Corporation

CPC-3800

Rugged Rackmount Server

The CPC-3800 series *ruggedized* Rackmount Servers are designed for deployment in the harshest military and industrial environments while supporting the latest advances in data storage technology. They are ideally suited for configuration within a high speed Ethernet network as server subsystems. Features include: dual/quad INTEL/AMD/SPARC Multi-core processors to 3+GHz; memory to 288GB; high performance RAID subsystem via dedicated high speed processors and data caching; easily expandable to suit changing needs for multiple removable data storage devices with hot-swap/hot-spare capability. Multiple backplane options include: industry standard multi-processor motherboards or 11 thru 20 slot active/passive backplanes in single or multi-segment configurations. ILOM Remote diagnostic and full RAID management capability via the Ethernet, as well as transparent support for all Operating Systems including Windows 7, Vista, XP, Solaris and Linux; multiple Gigabit Ethernet (10/100/1000 autosensing) and both copper and fiber support are standard. And of course, the CPC-3800 series supports all manufacturers' disk drives, CD/DVD devices and tape drives, as well as solid-state Flashdisk devices. Available in 1U through 4U standard rack mount sizes.



FIELD RUGGED - MISSION READY

CHASSIS

- > Seam Welded Monocoque Aluminum Design 1U thru 4U.
- > Forced air cooled, high flow
- > 19" Rack-mount or Pedestal mount
- > Easy Removable Top Access Cover and front drive/media access door
- > Fully EMI shielded with flexible I/O

UPGRADEABILITY

- > Multiple drives for over 48TB of rugged data storage
- > Hot swap drive bays, optional
- > Industry standard motherboard or passive backplane configuration
- > Mix & Match all types of disk drives or solid-state Flashdisks

POWER SUPPLY

- > Militarized Power Supply
- > Auto-range AC & DC options
- > Wide Voltage & Frequency Compliance
- > Power Cord with secure Twist-&-Lock connector
- > BBU option

DISPLAY

- > Full control via OS through Ethernet connection
- > Standard Video and PS/2 keyboard/mouse connections
- > SNMP, DHCP, ILOM and static IP support
- > Optional RAID manager

INTERFACING

- > Drives: SATA, SAS, EIDE, SCSI
- > Host: RJ-45 Base-T Ethernet
- > Flexible I/O options
- > Multiple Gigabit Ethernet (10/100/1000 autosensing)
- > Windows 7, Vista, XP, Linux
- > MIL-STD I/O connector options

PERIPHERALS

- > 2.5"/3.5"/5.25" disk drive form factors supported
- > Full support for all hard drives and solid-state Flashdisks
- > Support for Optical drives
- > Mix & Match all drives, media and capacities



ALTITUDE



TEMPERATURE



SOLAR RADIATION



RAIN



HUMIDITY



FUNGUS



SALT FOG



SAND/DUST



VIBRATION



SHOCK



EMI/EMC

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UNIT SPECIFICATIONS

Item	CPC-3800/4	CPC-3800/3	CPC-3800/2
Rack height	4U	3U	2U
Hard Drive capacity	16 drives	16 drives	12 drives
Backplane	Motherboard or Passive	Motherboard or Passive	Motherboard
Processor	Intel/AMD/Sparc	Intel/AMD/Sparc	Intel/AMD/Sparc
Disk interface	SATA, SAS, EIDE, SCSI	SATA, SAS, EIDE, SCSI	SATA, SAS, EIDE, SCSI
Host interface	Multiple Gigabit Ethernet (10/100/1000)	Multiple Gigabit Ethernet (10/100/1000)	Multiple Gigabit Ethernet (10/100/1000)
Backplane Segments	1 or 2	1 or 2	N/A
Memory	Up to 288GB	Up to 288GB	Up to 288GB

Item	CPC-3800/1	CPC-3800/SD4	CPC-3800/SD3
Rack height	1U	4U	3U
Hard Drive capacity	8 drives	16 drives	16 drives
Backplane	Motherboard	Motherboard or Passive	Motherboard or Passive
Processor	Intel/AMD/Sparc	Intel/AMD/Sparc	Intel/AMD/Sparc
Disk interface	SATA, SAS, EIDE, SCSI	SATA, SAS, EIDE, SCSI	SATA, SAS, EIDE, SCSI
Host interface	Multiple Gigabit Ethernet (10/100/1000)	Multiple Gigabit Ethernet (10/100/1000)	Multiple Gigabit Ethernet (10/100/1000)
Backplane Segments	N/A	1 or 2	1 or 2
Memory	Up to 288GB	Up to 288GB	Up to 288GB

- SD4 & SD3 – Short Depth of 20". Special Order Only.
- Standard Chassis Depth is 24".

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ENVIRONMENTAL

Temperature	operating non-operating	0°C to +50°C -40°C to +85°C
Altitude	operating non-operating	-1,000 to 15,000' to 60,000' (Method 500.3)
Fungus		Will not support growth per Method 508.4
Humidity		5 - 95% Non-Condensing
Rain		Operating, per Method 506.3 Procedure I
Salt Fog		MIL-STD-810E Method 509.3 Procedure I, exterior
Sand & Dust		Operating per Method 510.3 Procedure I
Solar Radiation		Operation in direct sunlight, minimum 30 minutes
Shock, operating		20g @ 11mS half sine, per Method 516.4 Procedure I
Shock, non-operating		75g @ 11mS half sine, per Method 516.4 Procedure V; 4' drop (in transit case)
Vibration		Per shipboard, common carrier, ground mobile, aircraft, tactical wheeled vehicle (Method 514.4); MIL-STD-167/1 type 1
MTBF		>30,000 hrs ground benign @ 25°C, typical, configuration dependent
MTTR		<30 minutes
EMI/EMC	Standard Optional	Designed for FCC Class A/B MIL-STD-461C/D/E A1,A3,A4,A5

Note: Extended Environmental Characteristics Are Available.

* Peripheral dependent, based on MIL-STD-810E where noted; preliminary data subject to final test confirmation. Extended environmental performance optional.